

# A L G E B R A I C COMBINATORICS AND QUANTUM GROUPS



edited by

Naihuan Jing

# **Algebraic Combinatorics And Quantum Groups**

Anatoli Klimyk, Konrad Schmüdgen

# **Algebraic Combinatorics And Quantum Groups:**

Algebraic Combinatorics and Quantum Groups Naihuan Jing, 2003 Algebraic combinatorics has evolved into one of the most active areas of mathematics during the last several decades Its recent developments have become more interactive with not only its traditional field representation theory but also algebraic geometry harmonic analysis and mathematical physics This book presents articles from some of the key contributors in the area It covers Hecke algebras Hall algebras the Macdonald polynomial and its deviations and their relations with other fields Representations of Quantum Algebras and Combinatorics of Young Tableaux Susumu Ariki, 2002 This book contains most of the nonstandard material necessary to get acquainted with this new rapidly developing area It can be used as a good entry point into the study of representations of quantum groups Among several tools used in studying representations of quantum groups or quantum algebras are the notions of Kashiwara's crystal bases and Lusztig's canonical bases Mixing both approaches allows us to use a combinatorial approach to representations of quantum groups and toapply the theory to representations of Hecke algebras The primary goal of this book is to introduce the representation theory of quantum groups using quantum groups of type A r 1 1 as a main example The corresponding combinatorics developed by Misra and Miwa turns out to be the combinatorics of Young tableaux The second goal of this book is to explain the proof of the generalized Leclerc Lascoux Thibon conjecture This conjecture which is now a theorem is an important breakthrough in the modular representation theory of the Hecke algebras of classical type The book is suitable for graduate students and research mathematicians interested in representation theory of algebraic groups and guantum groups the theory of Hecke algebras algebraic combinatorics andrelated fields Foundations of Quantum Group Theory Shahn Majid, 2000 A graduate level text which systematically lays out the foundations of Quantum Quantized Algebra And Physics - Proceedings Of The International Workshop Chengming Bai, Mo-lin Ge, Naihuan Groups Jing, 2011-10-18 The book aims to survey recent developments in quantum algebras and related topics Quantum groups were introduced by Drinfeld and Jimbo in 1985 in their work on Yang Baxter equations The subject from the very beginning has been an interesting one for both mathematics and theoretical physics For example Yangian is a special example of quantum group corresponding to rational solution of Yang Baxter equation Viewed as a generalization of the symmetric group Yangians also have close connections to algebraic combinatorics This is the proceeding for the International Workshop on Quantized Algebra and Physics The workshop aims to gather experts and young investigators from China and abroad to discuss research problems in integrable systems conformal field theory string theory Lie theory quantum groups including Formal Power Series and Algebraic Combinatorics Daniel Krob, 2000-05-26 This Yangians and their representations book contains the extended abstracts presented at the 12th International Conference on Power Series and Algebraic Combinatorics FPSAC 00 that took place at Moscow State University June 26 30 2000 These proceedings cover the most recent trends in algebraic and bijective combinatorics including classical combinatorics combinatorial computer algebra

combinatorial identities combinatorics of classical groups Lie algebra and quantum groups enumeration symmetric functions young tableaux etc Compact Matrix Quantum Groups and their Combinatorics Amaury Freslon, 2023-07-27 The book presents the theory of compact quantum groups and its interactions with quantum information and graph theory and Formal Power Series and Algebraic Combinatorics Daniel Krob, Alexander A. Mikhalev, Alexander V. Mikhalev, 2013-03-09 This book contains the extended abstracts presented at the 12th International Conference on Power Series and Algebraic Combinatorics FPSAC 00 that took place at Moscow State University June 26 30 2000 These proceedings cover the most recent trends in algebraic and bijective combinatorics including classical combinatorics combinatorial computer algebra combinatorial identities combinatorics of classical groups Lie algebra and quantum groups enumeration symmetric functions young tableaux etc New Perspectives in Algebraic Combinatorics Louis J. Billera, 1999-09-28 This text contains expository contributions by respected researchers on the connections between algebraic geometry topology commutative algebra representation theory and convex geometry **Ouantum Groups and Their Representations** Anatoli Klimyk, Konrad Schmüdgen, 2012-12-06 This book start with an introduction to quantum groups for the beginner and continues as a textbook for graduate students in physics and in mathematics It can also be used as a reference by more advanced readers The authors cover a large but well chosen variety of subjects from the theory of quantum groups quantized universal enveloping algebras quantized algebras of functions and g deformed algebras q oscillator algebras their representations and corepresentations and noncommutative differential calculus The book is written with potential applications in physics and mathematics in mind The basic quantum groups and quantum algebras and their representations are given in detail and accompanied by explicit formulas A number of topics and results from the more advanced general theory are developed and discussed Algebraic Combinatorics and Applications Anton Betten, Axel Kohnert, Reinhard Laue, Alfred Wassermann, 2013-11-09 Proceedings of a high level conference on discrete mathematics focusing on group actions in the areas of pure mathematics applied mathematics computer science physics and chemistry A useful tool for researchers and graduate students in discrete mathematics and theoretical computer science

Representations of Lie Algebras, Quantum Groups and Related Topics Naihuan Jing, Kailash C. Misra, 2018-08-21 This volume contains the proceedings of the AMS Special Session on Representations of Lie Algebras Quantum Groups and Related Topics held from November 12 13 2016 at North Carolina State University Raleigh North Carolina The articles cover various aspects of representations of Kac Moody Lie algebras and their applications structure of Leibniz algebras and Krichever Novikov algebras representations of quantum groups and related topics Lectures on Algebraic Quantum Groups John C Brown, Ken R. Goodearl, 2002-04-01 This book consists of an expanded set of lectures on algebraic aspects of quantum groups It particularly concentrates on quantized coordinate rings of algebraic groups and spaces and on quantized enveloping algebras of semisimple Lie algebras Large parts of the material are developed in full textbook style featuring

many examples and numerous exercises other portions are discussed with sketches of proofs while still other material is Modern Trends in Algebra and Representation Theory David Jordan, Nadia Mazza, Sibylle quoted without proof Schroll, 2023-08-17 Aimed at graduate students and non experts this text gives a guided tour of modern developments in algebra and representation theory Quantum Group Symmetry And Q-tensor Algebras Lawrence C Biedenharn, Max A Lohe,1995-08-31 Quantum groups are a generalization of the classical Lie groups and Lie algebras and provide a natural extension of the concept of symmetry fundamental to physics This monograph is a survey of the major developments in quantum groups using an original approach based on the fundamental concept of a tensor operator Using this concept properties of both the algebra and co algebra are developed from a single uniform point of view which is especially helpful for understanding the noncommuting co ordinates of the quantum plane which we interpret as elementary tensor operators Representations of the q deformed angular momentum group are discussed including the case where q is a root of unity and general results are obtained for all unitary quantum groups using the method of algebraic induction Tensor operators are defined and discussed with examples and a systematic treatment of the important 3j series of operators is developed in detail This book is a good reference for graduate students in physics and mathematics Basics of Representation Theory Udayan Bhattacharya, 2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and A Double Hall Algebra Approach to Affine Quantum Schur-Weyl Theory Bangming Deng, Jie depth of this field Du, Qiang Fu, 2012-12-06 The first book of its kind to present an algebraic approach to affine q Schur algebras and affine Open Problems in Algebraic Combinatorics Christine Berkesch, Benjamin Brubaker, Gregg quantum Schur Weyl theory Musiker, Pavlo Pylyavskyy, Victor Reiner, 2024-08-21 In their preface the editors describe algebraic combinatorics as the area

of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume. The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics Geometric Complexity Theory IV: Nonstandard Quantum Group for the Kronecker Problem Jonah Blasiak, Ketan D. Mulmuley, Milind Sohoni, 2015-04-09 The Kronecker coefficient is the multiplicity of the irreducible in the restriction of the irreducible via the natural map where are vector spaces and A fundamental open problem in algebraic combinatorics is to find a positive combinatorial formula for these coefficients. The authors construct two quantum objects for this problem which they call the nonstandard quantum group and nonstandard Hecke algebra They show that the nonstandard quantum group has a compact real form and its representations are completely reducible that the nonstandard Hecke algebra is semisimple and that they satisfy an analog of quantum Schur Weyl duality to Quantum Groups George Lusztig, 2010-10-27 The quantum groups discussed in this book are the quantized enveloping algebras introduced by Drinfeld and Jimbo in 1985 or variations thereof The theory of quantum groups has led to a new extremely rigid structure in which the objects of the theory are provided with canonical basis with rather remarkable properties This book will be of interest to mathematicians working in the representation theory of Lie groups and Lie algebras knot theorists and to theoretical physicists and graduate students Since large parts of the book are independent of the theory of perverse sheaves the book could also be used as a text book **Perspectives in Representation Theory** Pavel Etingof, Mikhail Khovanov, Alistair Savage, 2014-03-11 This volume contains the proceedings of the conference Perspectives in Representation Theory held from May 12 17 2012 at Yale University in honor of Igor Frenkel s 60th birthday The aim of the conference was to present current progress on the following interrelated topics vertex operator algebras and chiral algebras conformal field theory the geometric Langlands program affine Lie algebras Kac Moody algebras quantum groups crystal bases and canonical bases quantum cohomology and K theory geometric representation theory categorification higher dimensional Kac Moody theory integrable systems guiver varieties representations of real and adic groups and quantum gauge theories The papers in this volume present representation theory connections to numerous other subjects as well as some of the most recent advances in representation theory including those which occurred thanks to the application of techniques in other areas of mathematics and of ideas of quantum field theory and string theory

# Reviewing Algebraic Combinatorics And Quantum Groups: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "Algebraic Combinatorics And Quantum Groups," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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